Owner's Manual

SETTING UP INSTRUCTIONS
PARTS LIST

INTERNATIONAL HARVESTER

McCORMICK

(Also McCormick-Deering)

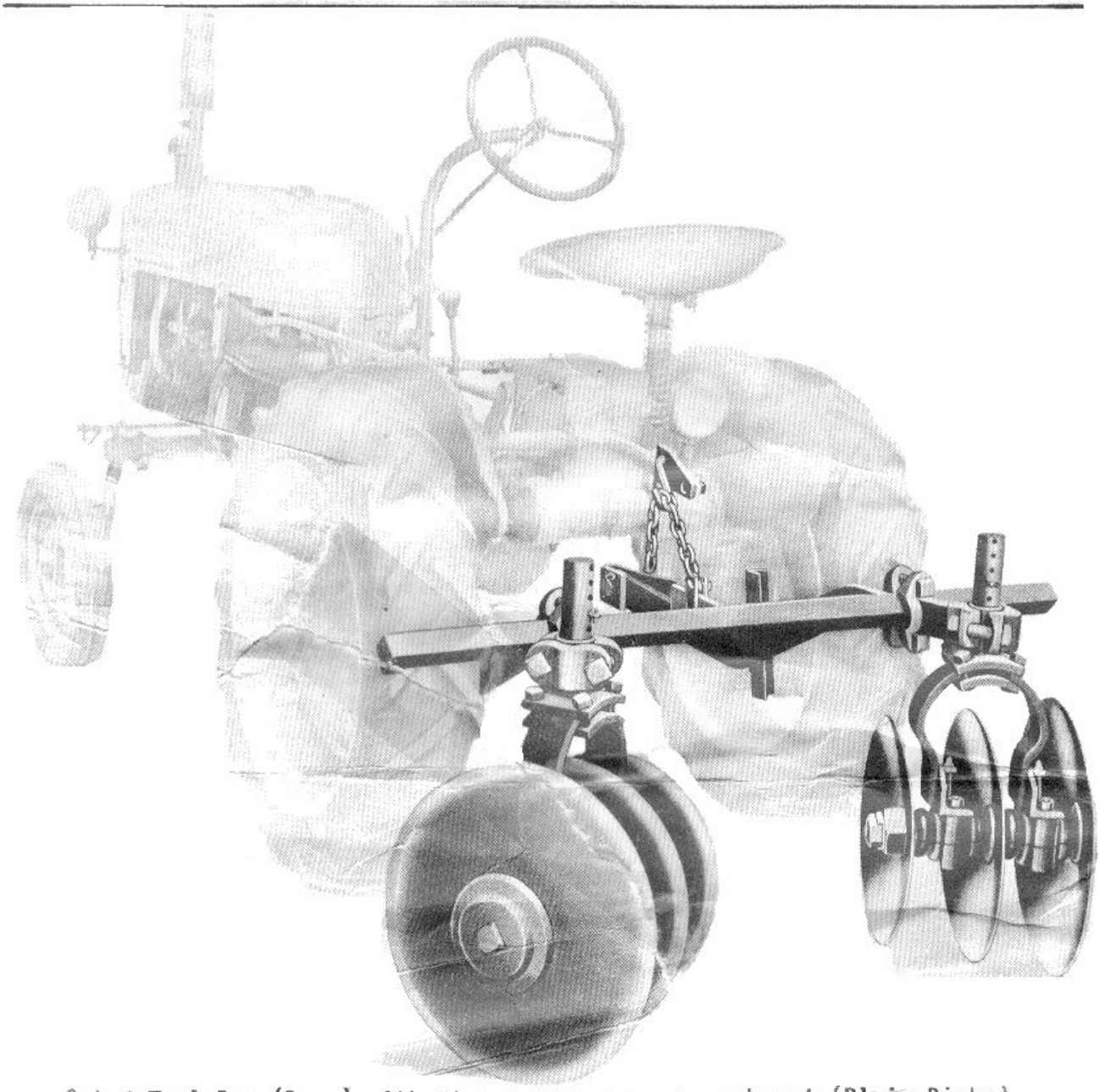
Cub-6

Tool Bar (Rear)

for use with

Farmall Cub Tractor

INTERNATIONAL HARVESTER COMPANY
180 North Michigan Ave. Chicago 1, Illinois, U.S.A.



Cub-6 Tool Bar (Rear) with Disk Cultivating Attachment (Plain Disks).

TO THE OWNER

The Cub-6 Tool Bar (Rear) is used with the Farmall Cub Tractor equipped with Hydraulic Touch Control. The touch control raises and lowers the machine. The levers by which the control is operated are on the steering post, convenient to the driver.

This tool bar is used only with tractors equipped with touch control and requires a rear rockshaft (512 652 R94) which is available on special order.

Attachments for various field operations are available on special order; these include the Extra Beam Attachment for using the middlebuster bottom to "run-in" the middles or for middle busting, a Disk Cultivating Attachment for building or reversing the beds and a Disk Harrow Attachment for harrowing. These Attachments are designed for use by growers of potatoes, vegetables and similar crops planted on beds.

INSTRUCTIONS FOR ADJUSTING AND OPERATING

(Setting Up Instructions are on page 4)

LUBRICATION

Use the pressure lubricating gun furnished with the tractor and keep all bearings and working parts well lubricated.

Four 1/8" 67-1/2° elbow lubricating fittings are provided for the disk gang bearings. These should be placed in the bearing oil pipes before the machine is operated and lubricated twice daily.

REMOVE THE VARNISH BEFORE STARTING

Disks are finished to give them a high polish and are varnished before leaving the factory to prevent rust. Good work cannot be accomplished until the varnish is removed.

VARNISH REMOVER: The recommended method is to use a regular prepared varnish remover which can be obtained from almost any store handling a line of paints.

CONCENTRATED LYE: Another method is to procure ordinary concentrated lye and mix it with water, making liquid strong enough to remove the varnis One small can of ordinary lye to one quart of water will be sufficient to remove the varnish from one disk. The lye may be applied by cloth or waste attached on the end of a stick. After applying the lye, let it stand for a few minutes, and if necessary, repeat the operation. **CAUTION:** Lye is poisonous and should be kept away from the face, hands, and clothing. The machine should be used immediately, or the disks should be thoroughly covered with grease to prevent the finished surfaces from rusting.

Whichever method is followed, be sure that all the varnish is removed before using the implement.

BUILDING BEDS

Refer to Illust. 4 and the instructions on page 7.

REVERSING BEDS

Refer to Illust. 5 and the instructions on page 8.

DISK HARROWING

Refer to Illust. 6 and the instructions on page 9.

MIDDLE BUSTING

Refer to Illust. 7 and the instructions on page 10.

INSTRUCTIONS FOR SETTING UP

(Adjusting and Operating Instructions are on page 3)

Remove all wires and arrange the parts conveniently.

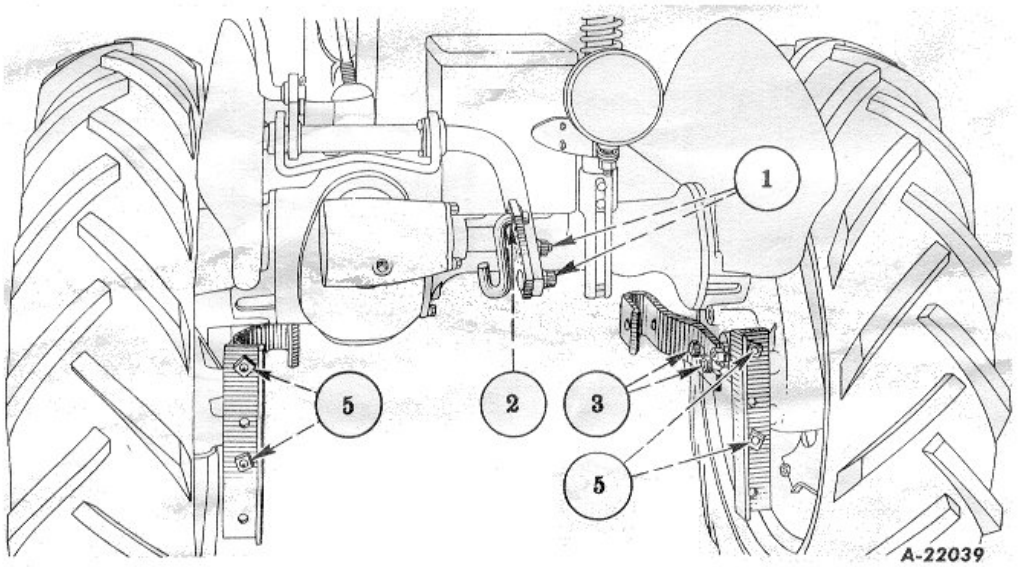
Lubricate all bearings and moving parts as you proceed and see that they work freely.

Bolts must be used in the holes in which they are found, or in the parts to which they are attached, unless otherwise shown.

Shaded portions in the illustrations show the parts to be assembled; these must be placed on the machine in the order numbered.

Wherever the terms "right" and "left" are used, it should be understood to mean from a position behind and facing the machine.

We reserve the right to make changes or improvements in the design or construction of any part without incurring the obligation to install such changes on any machine previously delivered.



Illust. 1

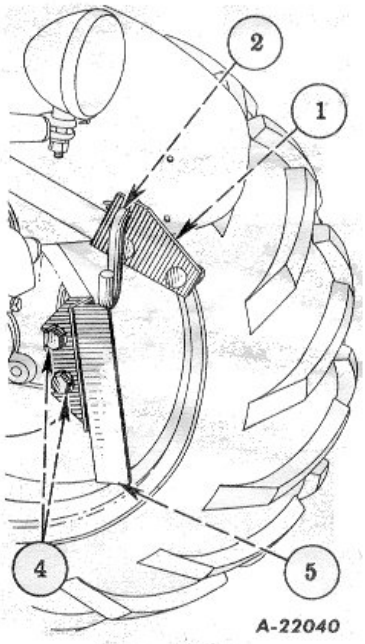
1. Bolt the rockshaft attaching plate to the rockshaft. **NOTE:** It is important that the rockshaft attaching plate be bolted to the rockshaft *as shown in Illusts. 1 and 2.*

2. Connect the pickup chain hook to the rockshaft attaching plate.

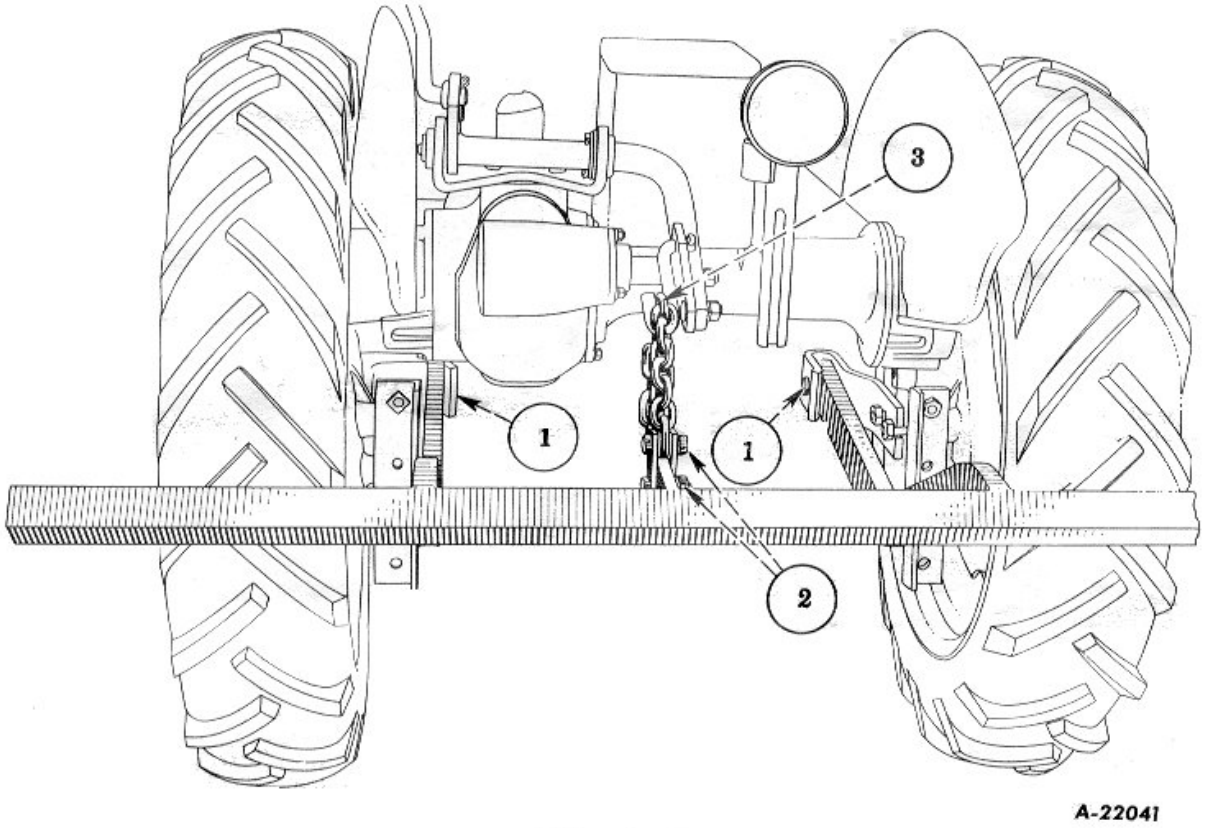
3. Bolt the attaching plates to the front attaching pads on the rear axle housing of the tractor.

4. Bolt the frame guide angle supports to the rear attaching pads on the rear axle housing of the tractor.

5. Bolt the frame guide angles to the frame guide angle supports.



Illust. 2



Illust. 3

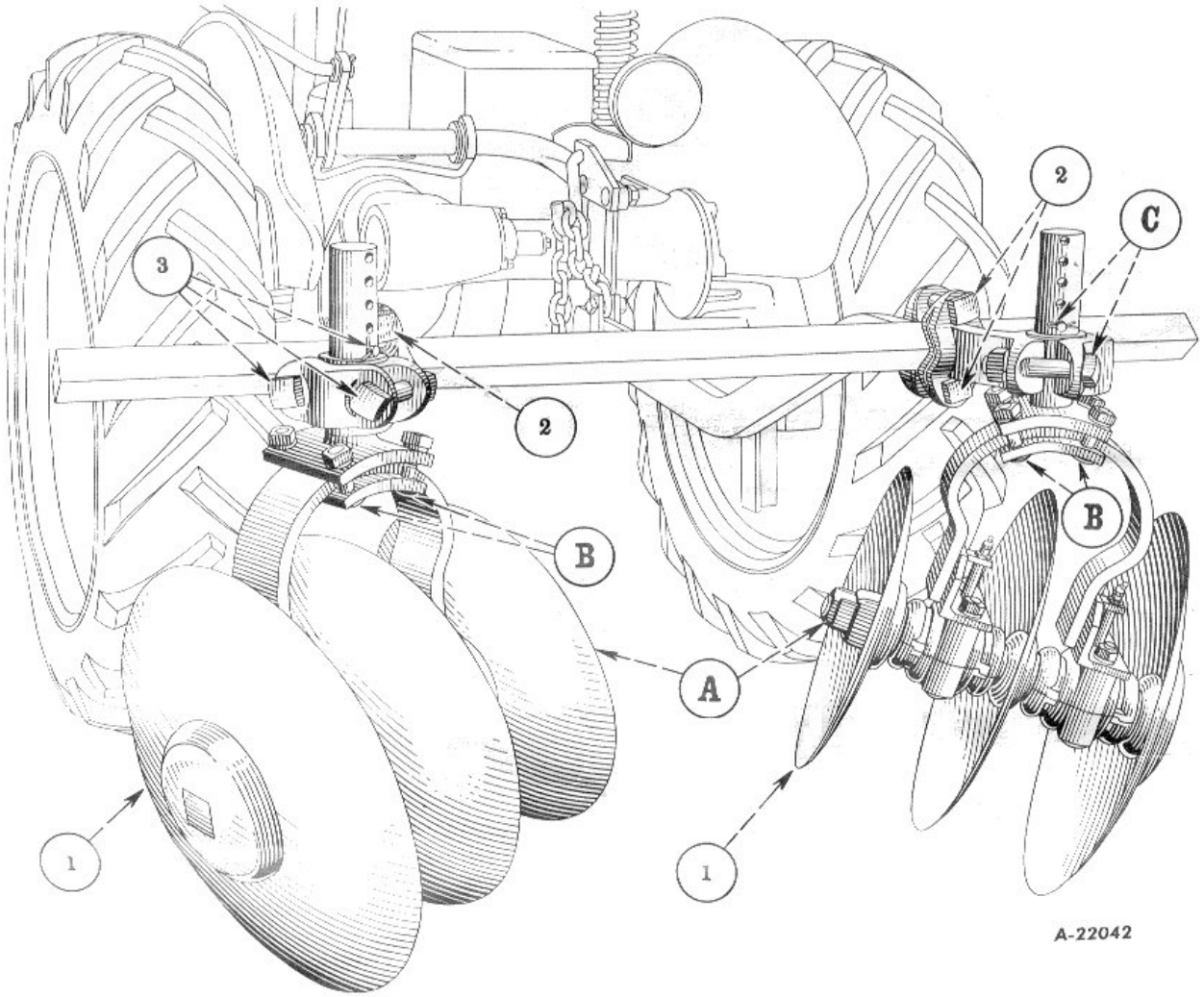
1. Attach the tool bar to the attaching plates with a pin and a quick-attachable cotter.

2. Bolt the pickup chain clips and the chain to the tool bar, using four washers as spacers between the chain and the clips.

3. Raise the tool bar and set the pickup chain in the pickup chain hook.

NOTE: The chain should not be hooked up so short that it will cause the tool bar draft beam to strike the axle housing when it is in the raised position.

DISK CULTIVATING ATTACHMENT 655 717 R91 (Plain Disk) (Special)
DISK CULTIVATING ATTACHMENT 655 718 R91 (Notched Disk) (Special)



Illust. 4
Disk gangs set for building the beds.

1. Assemble the disk gangs as illustrated. **NOTE: Be sure to keep the arbor bolt nuts "A" tight and the arbor bolt nut locks in position at all times.**

2. Clamp the disk gang clamps to the tool bar.

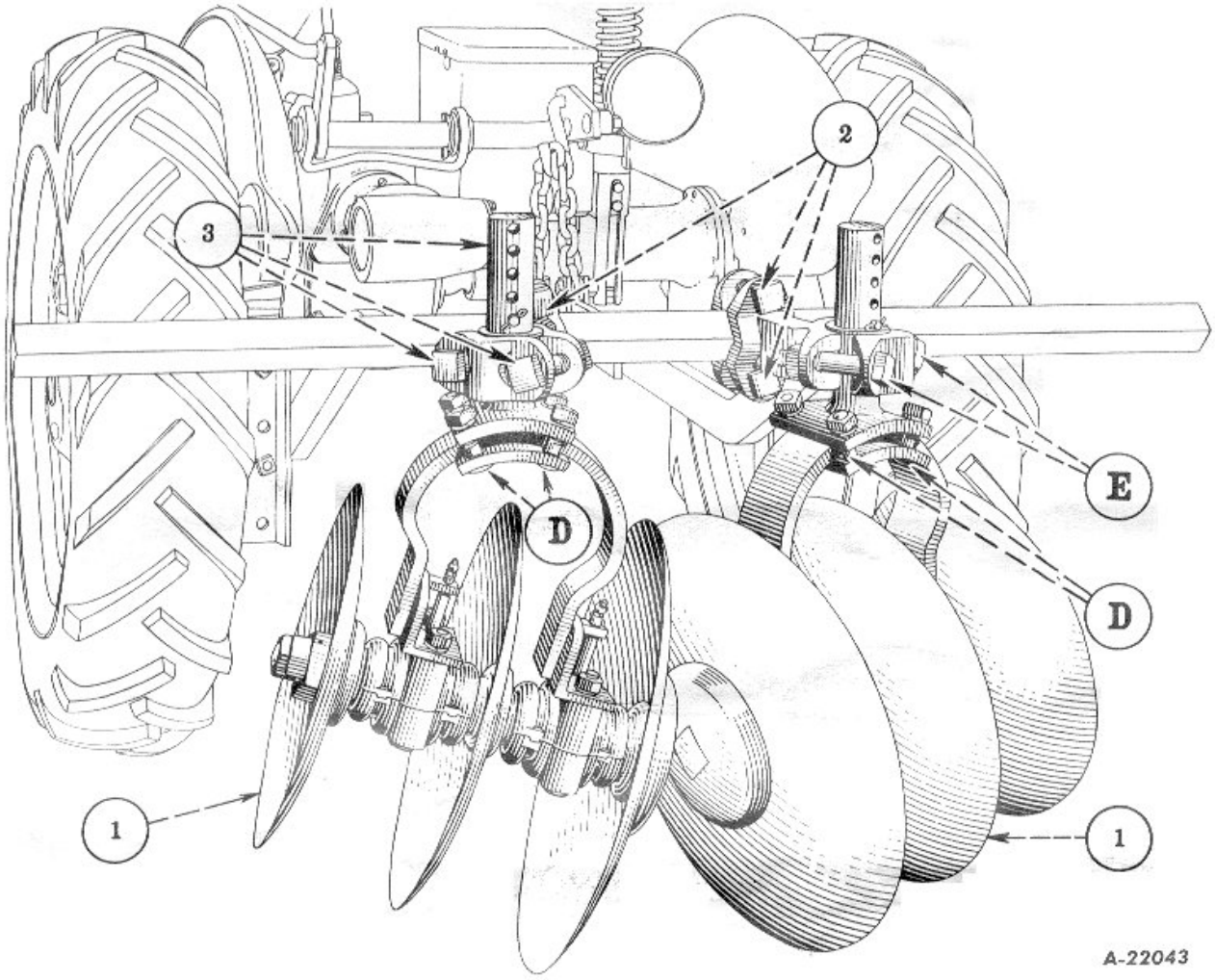
3. Clamp the disk gangs to the disk brackets, using the plain washers provided and inserting the drilled pins in the holes desired. **Secure the pins with cotters.**

TO TILT THE GANGS: Loosen the bolts "B" and tilt to the desired angle. **Be sure both gangs are set at the same angle.**

TO ANGLE THE GANGS: Loosen the bolts "C" and swing the gangs to the desired angle. **Be sure both gangs are set at the same angle.**

TO REGULATE THE DEPTH OF THE GANGS: Loosen the bolts "C" and remove the washers and the drilled pins; adjust the gangs as desired and replace the washers, pins and cotters.

DISK CULTIVATING ATTACHMENT 655 717 R91 (Plain Disk) (Special)
DISK CULTIVATING ATTACHMENT 655 718 R91 (Notched Disk) (Special) - Continued



Illust. 5
Disk gangs set for reversing beds.

1. Assemble the disk gangs as illustrated. NOTE: Be sure to keep the arbor bolt nuts tight and the arbor bolt nut locks in position at all times.

2. Clamp the disk gang clamps to the tool bar.

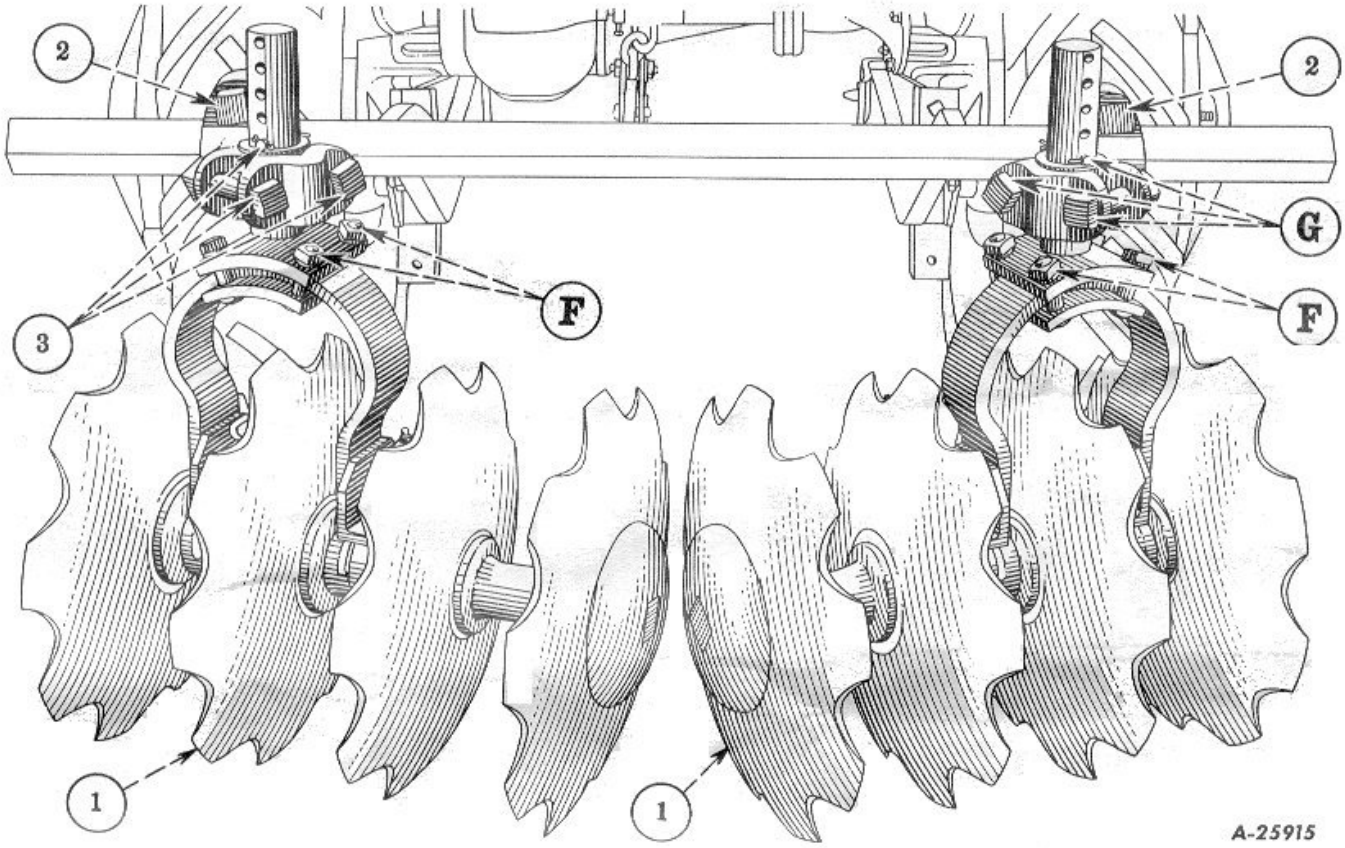
3. Clamp the disk gangs to the disk brackets, using the plain washers provided and inserting the drilled pins in the holes desired. Secure the pins with cotters.

TO TILT THE GANGS: Loosen the bolts "D" and tilt to the desired angle. Be sure both gangs are set at the same angle.

TO ANGLE THE GANGS: Loosen the bolts "E" and swing the gangs to the desired angle. Be sure both gangs are set at the same angle.

TO REGULATE THE DEPTH OF THE GANGS: Loosen the bolts "E" and remove the washers and the drilled pins; adjust the gangs as desired and replace the washers, pins and cotters.

DISK HARROW ATTACHMENT 656 546 R91 (Plain Disk) (Special)
DISK HARROW ATTACHMENT 656 547 R91 (Notched Disk) (Special)



Illust. 6
Disk gangs set for harrowing.

1. Assemble the disk gangs as illustrated. NOTE: Be sure to keep the arbor bolt nuts tight and the arbor bolt nut locks in position at all times.

2. Clamp the disk gang clamps to the tool bar.

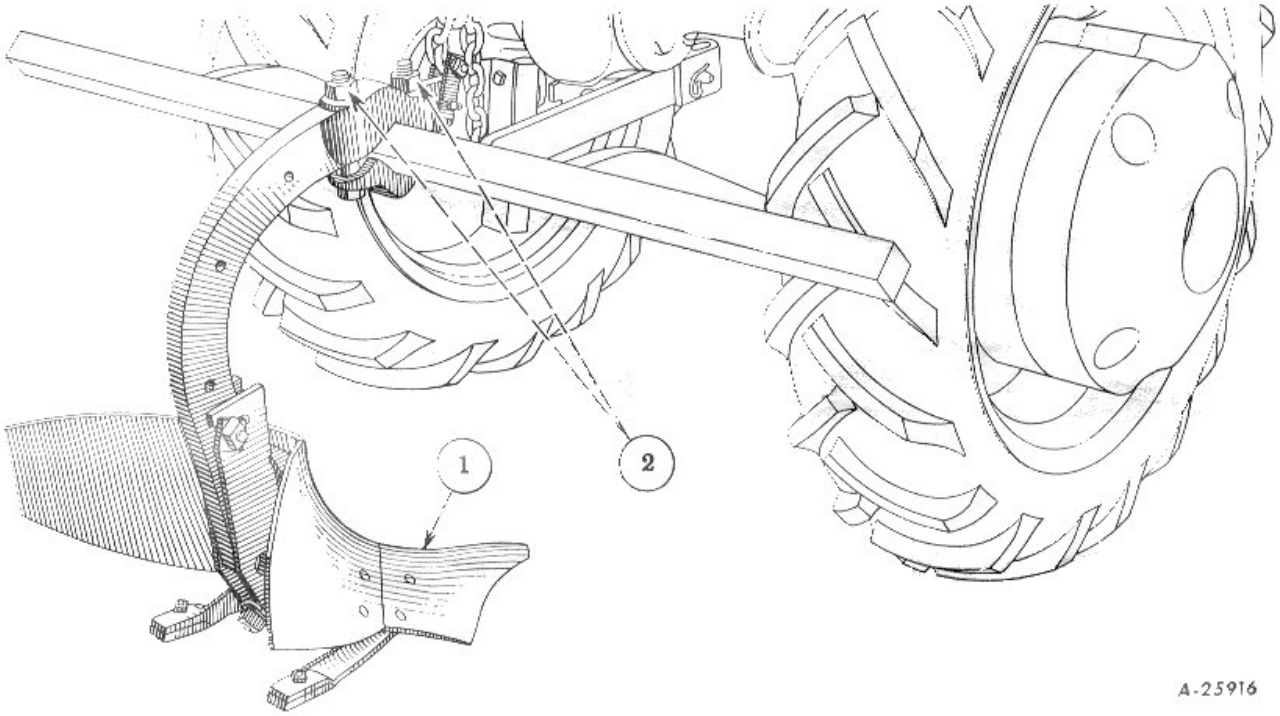
3. Clamp the disk gangs to the disk brackets, using the plain washers provided and inserting the drilled pins in the holes desired. Secure the pins with cotters.

TO TILT THE GANGS: Loosen the bolts "F" and tilt to the desired angle. Be sure both gangs are set at the same angle.

TO ANGLE THE GANGS: Loosen the bolts "G" and swing the gangs to the desired angle. Be sure both gangs are set at the same angle.

TO REGULATE THE DEPTH OF THE GANGS: Loosen the bolts "G" and remove the washers and the drilled pins; adjust the gangs as desired and replace the washers, pins and cotters.

EXTRA BEAM ATTACHMENT (655 719 R91) (Special)

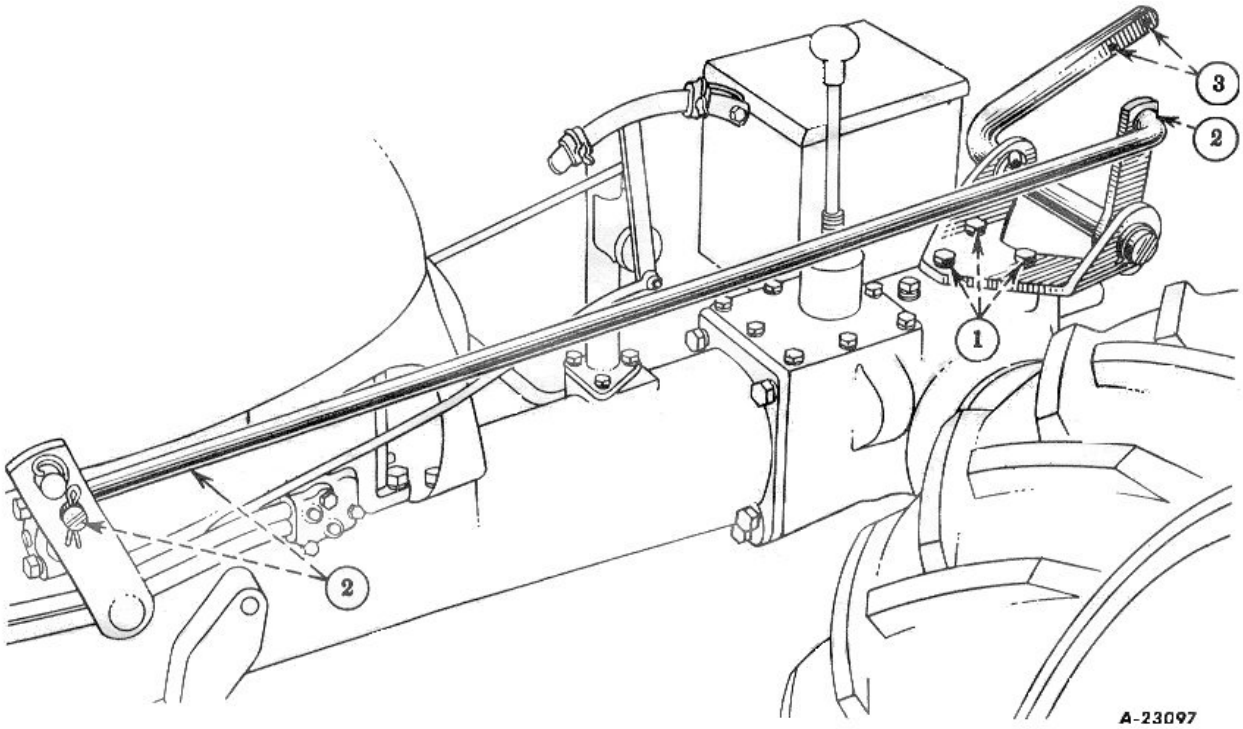


Illust. 7
Extra Beam Attachment with Middle Buster Bottom.

1. Attach the bottom to the friction break plates.
2. Clamp the beam to the tool bar.

NOTE: 34-B-10 bottoms are recommended, and any of various listed middlebuster bottoms may be used. Bottoms are not furnished with this attachment. They must be ordered separately.

REAR ROCKSHAFT UNIT (Touch Control)



Illust. 8

1. Attach the rockshaft bracket with the rockshaft to the tractor housing as shown.

2. Remove the cotters from the lift rod and attach as shown, then replace the cotters.

3. Attach the means for lifting the implement to the holes at the end of the rockshaft arm.

PARTS LIST AND ILLUSTRATIONS

The following pages contain parts lists and "exploded" view illustrations of the various units disassembled so that parts wanted may be readily located. Reference numbers only are shown in the illustrations. To avoid errors and delays, when ordering parts always use the regular "Part Number " shown with the "Ref. No." Do not use reference numbers when ordering parts.

WHEN THE PART NUMBER IS NOT KNOWN: use the "Index to Units" below and refer to the illustration of the unit on which the part is used. The illustrations show reference numbers which appear in the accompanying reference list. The reference list contains the part number with a "noun first" or basic description.

WHEN THE PART NUMBER IS KNOWN: use the "Numerical Index" at the back of the manual. This index shows the page number on which the part is listed. The reference number, which is listed with the part number, may be used for referring to the illustration.

Do not order from the illustrations only; refer to the list also.

Attaching parts, such as bolts, cap screws, lock washers, nuts, cotter pins, etc., are listed beneath and indented from the part they attach. Attaching parts must be ordered separately as they are not furnished with the part they attach.

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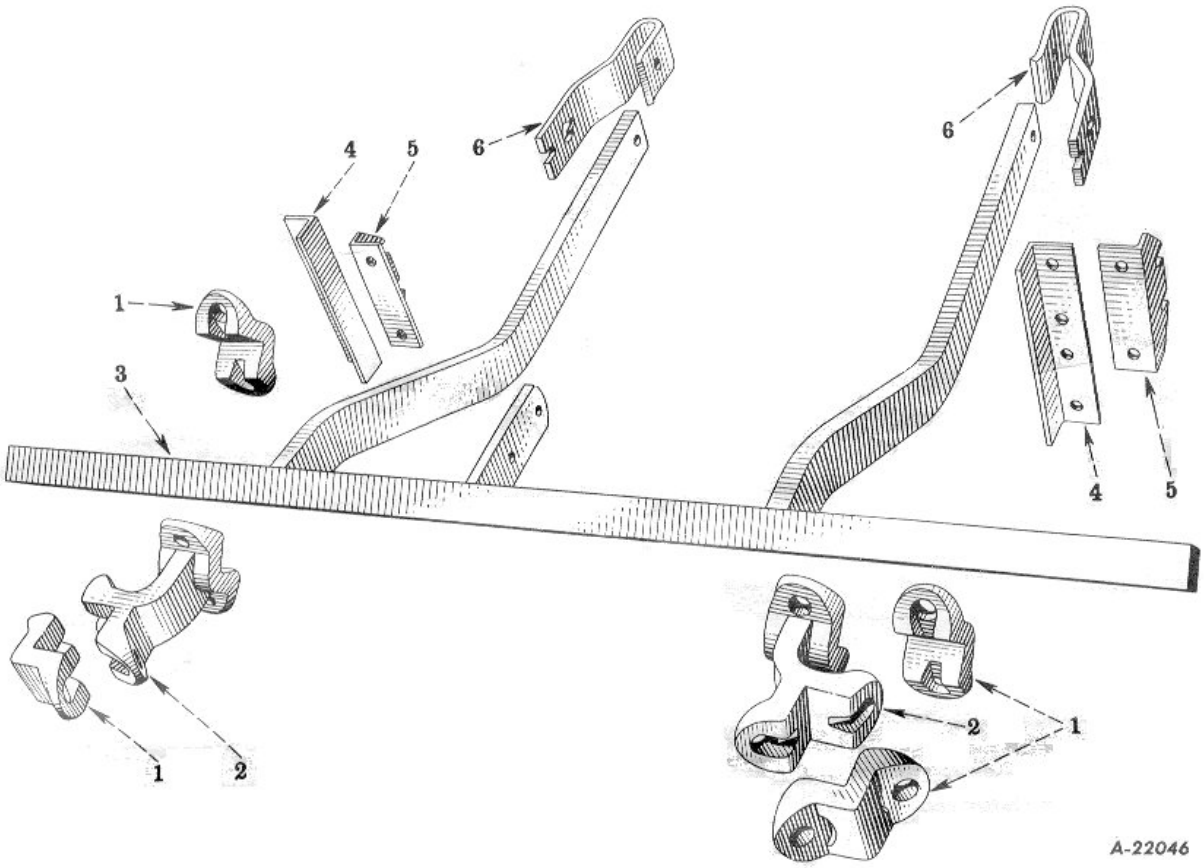
Rear Rockshaft Unit (Touch-Control)	19
Tool Bar	13

Numerical Index will be found on page 19.

LIST OF ABBREVIATIONS

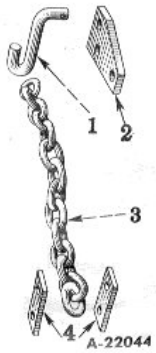
br. . . . . brass	I.D. . . . . inside diameter
bz. . . . . bronze	L.H. . . . . left hand
cd-pltd. . . . . cadmium plated	NC . . . . . National Coarse Threads
ck. . . . . countersunk	NF . . . . . National Fine Threads
dbl-flange . . . . . double flange	No. . . . . number
dia. . . . . diameter	O.D. . . . . outside diameter
dld. . . . . drilled	pt. . . . . point
f/ . . . . . for	rd. . . . . round
fil. . . . . fillister	R.H. . . . . right hand
fl. . . . . flat	sq. . . . . square
ft. . . . . foot	spec. . . . . special
ga. . . . . gauge	std. . . . . standard
hd. . . . . head	thd. . . . . thread
hdls. . . . . headless	w/ . . . . . with
hex. . . . . hexagon	w/o . . . . . without

TOOL BAR



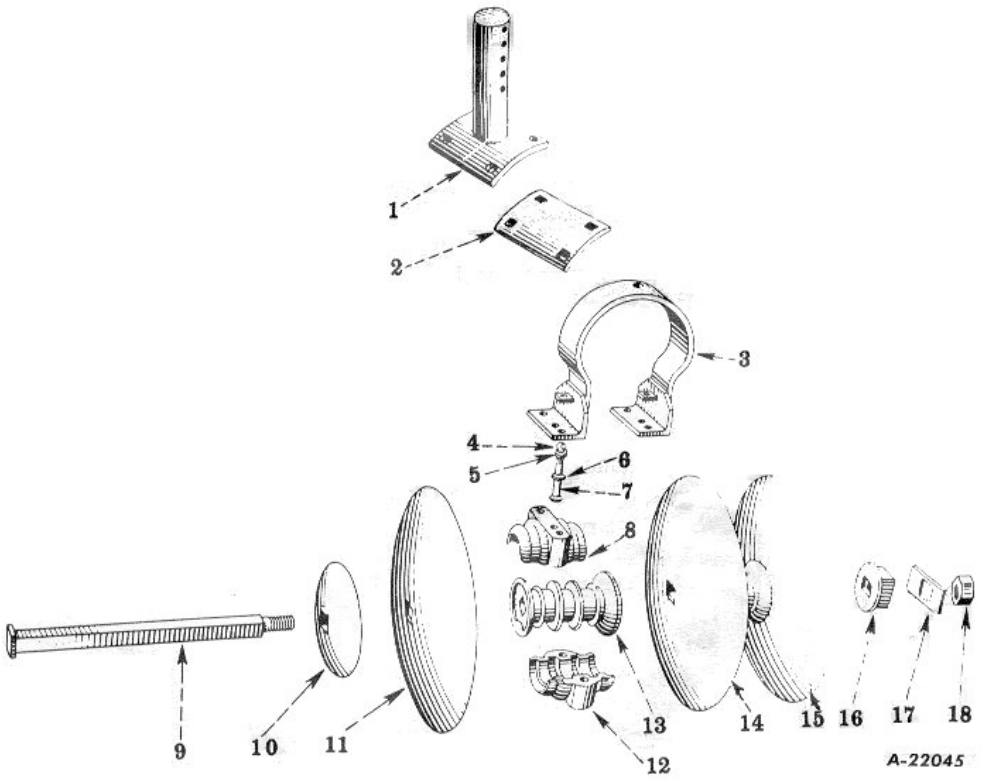
Ref. No.	Part Number	Description
1	PO 19 926	CAP, clamp, disk gang.
	13 512 R1	BOLT, machine, 7/8-9NC x 4-1/4" (8 used).
	114 822	NUT, hex., 7/8-9NC.
	103 327	WASHER, lock, 7/8".
2	655 326 R91	CLAMP, disk gang (welded assembly).
3	655 324 R91	BAR, tool (welded assembly).
	PO 25 568	PIN, pointed, 3/4 x 3-1/2".
4	655 323 R1	ANGLE, frame guide.
5	655 322 R1	SUPPORT, frame guide angle.
	13 264 R11	BOLT, machine, 1/2-13NC x 1-1/8", w/NUT (4 used).
	103 323	WASHER, lock, 1/2".
6	655 316 R1	PLATE, attaching.
	351 679 R1	SCREW, cap, hex-hd., 5/8-11NC x 1" (4 used).
. . .	23 966 D	WRENCH, socket (not illustrated).

PICKUP CHAIN



Ref. No.	Part Number	Description
1	655 320 R1	HOOK, pickup chain.
	13 095 R1	PIN, cotter, 1/4 x 1-1/4".
	141 080 H	WASHER, plain, 11/16" I.D. x 1-1/16" O.D. x 11 ga.
2	655 327 R1	PLATE, attaching, rockshaft.
	15 600 R11	BOLT, plow, No. 3, 1/2-13NC x 1-3/4", w/NUT.
	103 323	WASHER, lock, 1/2".
3	PO 22 989	CHAIN, pickup (14 links).
4	655 319 R1	CLIP, pickup chain.
	13 304 R11	BOLT, machine, 7/16-14NC x 1-5/8", w/NUT.
	13 068 R1	PIN, cotter, 3/16 x 1".
	J 547	PIN, std-hd., 1/2x1-7/16".
	510 580 R11	WASHER, 15/32" I.D. x 15/16" O.D. x 11 ga.
	103 322	WASHER, lock, 7/16".

DISK CULTIVATING ATTACHMENT 655 717 R91 (Plain Disk) (Special)
DISK CULTIVATING ATTACHMENT 655 718 R91 (Notched Disk) (Special)

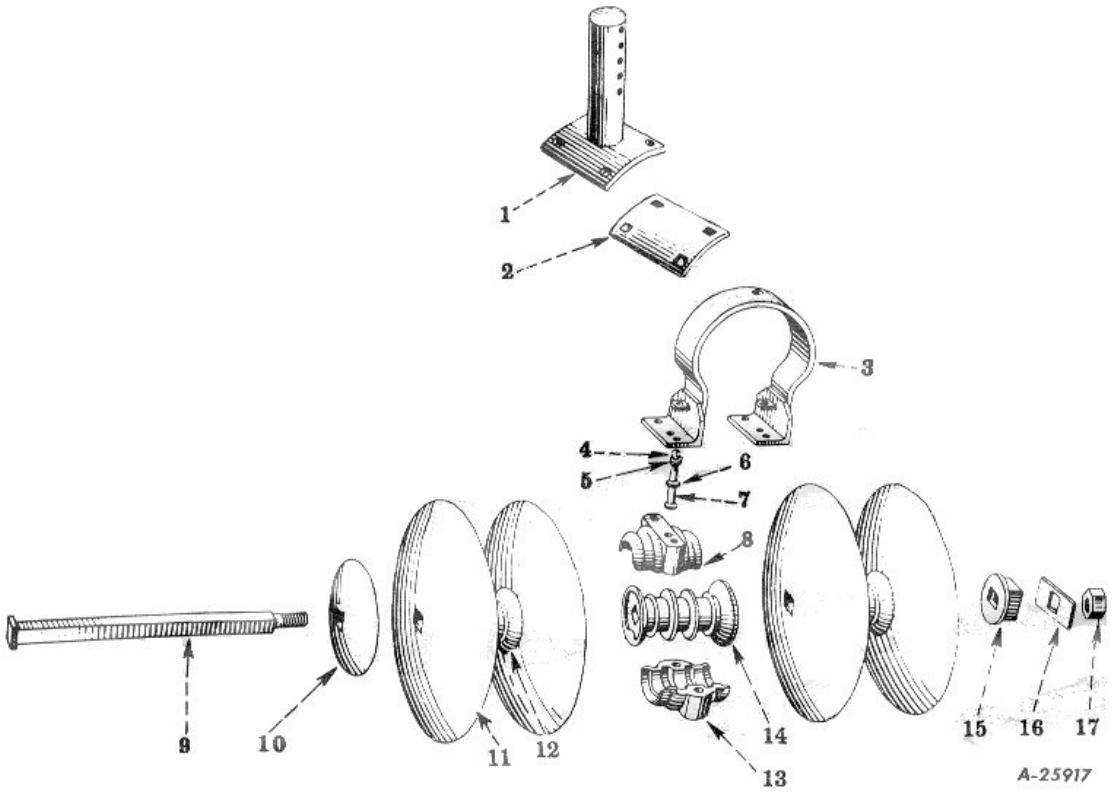


DISK CULTIVATING ATTACHMENT 655 717 R91 (Plain Disk) (Special)
DISK CULTIVATING ATTACHMENT 655 718 R91 (Notched Disk (Special)
-Continued

Index to Reference Numbers shown in illustration on opposite page.

Ref. No.	Part Number	Description
1	PO 26 293	SPINDLE, yoke, cp.
	PO 25 995	PIN, drilled, 7/16 x 2-11/16".
	13 066 R1	PIN, cotter, 1/8 x 1".
	PO 20 309	WASHER, plain, 2-1/16" I.D. x 2-3/4" O.D. x 11 ga.
2	PO 26 769	CLAMP, yoke spindle.
	15 112 R11	BOLT, carriage, 5/8-11NC x 2-1/2", w/NUT (8 used)
	103 325	WASHER, lock, 5/8".
3	513 288 R91	YOKE, disk (welded assembly).
4	109 350	FITTING, lubrication, 1/8", 67-1/2° elbow.
5	PA 13 345	NUT, lock, oil pipe.
6	P 13 428	WASHER, leather.
7	513 286 R1	PIPE, oil.
8	PA 3 089	BEARING, upper half.
	15 270 R1	BOLT, carriage, 5/8-11NC x 5" (8 used).
	114 820	NUT, hex., 5/8-11NC.
	103 325	WASHER, lock, 5/8".
9	513 284 R1	BOLT, arbor.
10	PD 1 803	WASHER, concave, arbor bolt.
11	No. 14 381 $\frac{1}{2}$	DISK, plain, 20" (2 used).
12	P 3 091	BEARING. lower half.
13	P 3 090	SPOOL, bearing.
14	No. 14 056 $\frac{1}{2}$	DISK, plain, 18" (2 used).
	No. 14 352 $\frac{1}{2}$	DISK, notched, 18" (6 used).
15	No. 14 055 $\frac{1}{2}$	DISK, plain,16" (2 used).
16	P 4 167	WASHER, arbor bolt.
17	P 34 101	LOCK, nut, arbor bolt.
18	12 526 R1	NUT, hex., 1-1/8".
...	PO 25 571	WRENCH, disk (not illustrated).

DISK HARROW ATTACHMENT 656 546 R91 (Plain Disk) (Special)
DISK HARROW ATTACHMENT 656 547 R91 (Notched Disk) (Special)

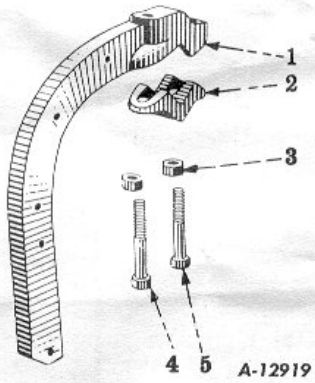


DISK HARROW ATTACHMENT 656 546 R91 (Plain Disk) (Special)
DISK HARROW ATTACHMENT 656 547 R91 (Notched Disk) (Special)
-Continued

Index to Reference Numbers shown in illustration on opposite page.

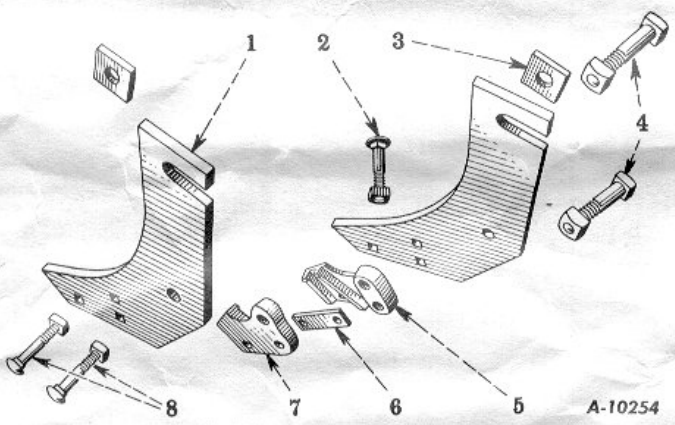
Ref. No.	Part Number	Description
1	PO 26 293	SPINDLE, yoke, cp.
	PO 25 995	PIN, drilled, 7/16 x 2-11/16".
	13 066 R1	PIN, cotter, 1/8 x 1".
	PO 20 309	WASHER, plain, 2-1/16" I.D. x 2-3/4" O.D. x 11 ga.
2	PO 26 769	CLAMP, yoke spindle.
	15 112 R11	BOLT, carriage, 5/8-11NC x 2-1/2", w/NUT (8 used).
	103 325	WASHER, lock, 5/8".
3	513 288 R91	YOKE, disk (welded assembly).
4	109 350	FITTING, lubrication, 1/8", 67-1/2° elbow.
5	PA 13 345	NUT, lock, oil pipe.
6	P 13 428	WASHER, leather.
7	513 286 R1	PIPE, oil.
8	PA 3 089	BEARING, upper half.
	15 270 R1	BOLT, carriage, 5/8-11NC x 5" (8 used).
	114 820	NUT, hex., 5/8-11NC.
	103 325	WASHER, lock, 5/8".
9	514 629 R1	BOLT, arbor.
10	PD 1 803	WASHER, concave, arbor bolt.
11	14 055 1/2	DISK, plain, 16" (6 used).
	14 352 1/2	DISK, notched, 18" (6 used).
12	P 1 650	SPOOL, spacing.
13	P 3 091	BEARING, lower half.
14	P 3 090	SPOOL, bearing.
15	P 4 167	WASHER, arbor bolt.
16	P 34 101	LOCK, nut, arbor bolt.
17	12 526 R1	NUT, hex., 1-1/8" (2 used).

EXTRA BEAM ATTACHMENT 655 719 R91) (Special)



Beam and Clamp.

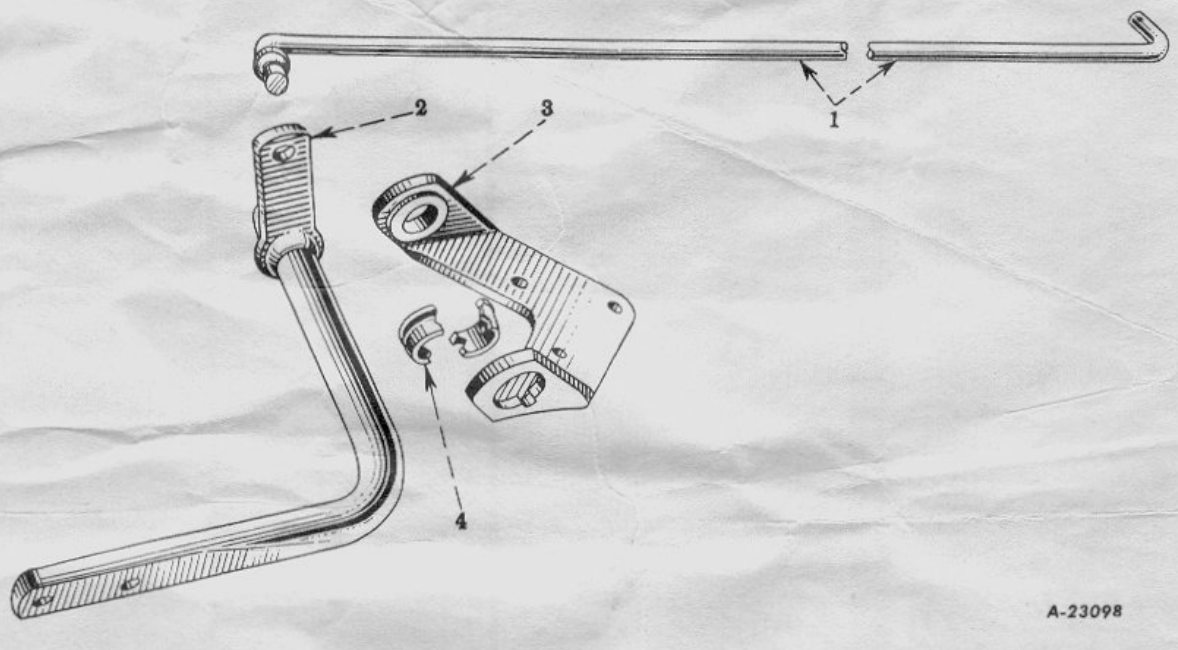
Ref. No.	Part Number	Description
1	PO 19 897 C	BEAM (heat treated).
2	PO 19 926	CLAMP, beam.
3	513 673 R1	NUT, hex., 7/8".
4	16 173 R1	SCREW, cap, hex-hd., 7/8-9NC x 4-3/4".
5	181 553	SCREW, cap, hex-hd., 7/8-9NC x 5-1/4".



Friction Break Plates.

Ref. No.	Part Number	Description
1	PO 28 367	PLATE, side.
2	15 126 R11	BOLT, carriage, 1/2-13NC x 2-3/4", w/NUT.
	15 109 R11	BOLT, carriage, 7/16-14NC x 2-1/2", w/NUT (2 used).
	13 434 R11	BOLT, machine, 5/8-11NC x 3-1/4", w/NUT.
3	PO 28 185	WASHER.
	13 434 R11	BOLT, machine, 5/8-11NC x 3-1/4", w/NUT.
4	13 434 R11	Follows Ref. Nos. 1 and 3.
5	PO 28 182	BLOCK, spacer, R.H.
6	PO 28 369	SPACER.
7	PO 28 181	BLOCK, spacer, L.H.
8	15 109 R11	Follows Ref. No. 1.

REAR ROCKSHAFT UNIT (Touch Control)



Ref. No.	Part Number	Description
1	516 192 R1	LINK, lifting rockshaft.
	13 094 R1	PIN, cotter, 3/16 x 1-1/4" (2 used).
2	514 553 R92	ROCKSHAFT, lifting, assembly.
	13 157 R1	PIN, cotter, 1/4 x 2".
	Q 3 487	WASHER, plain, 1-17/32" I.D. x 2-1/4" O.D. x 11 ga.
3	515 741 R1	BRACKET, mounting, rockshaft.
	179 885	SCREW, cap, hex-hd., 1/2-13NC x 1-1/2" (3 used).
	514 548 R1	BEARING, lifting rockshaft, lower.
4	514 549 R1	BEARING, lifting rockshaft, upper.

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PO 26 769	17
PO 28 181	18
PO 28 182	18
PO 28 185	18
PO 28 367	18
PO 28 369	18
P 34 101	15
P 34 101	17
Q	
3 487	19
R	
12 526 R1	15
12 526 R1	17
13 066 R1	15
13 066 R1	17
13 068 R1	14
13 094 R1	19
13 095 R1	14
13 157 R1	19
13 264 R11	13
13 304 R11	14
13 434 R11	18
13 512 R1	13
15 109 R11	18
15 112 R11	15
15 112 R11	17
15 126 R11	18
15 270 R1	15
15 270 R1	17
15 600 R11	14
16 173 R1	18
351 679 R1	13
510 580 R11	14
513 284 R1	15
513 286 R1	15
513 286 R1	17
513 288 R91	15
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514 549 R1	19
514 553 R92	19
513 563 R1	18
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515 741 R1	19
516 192 R1	19
655 316 R1	13
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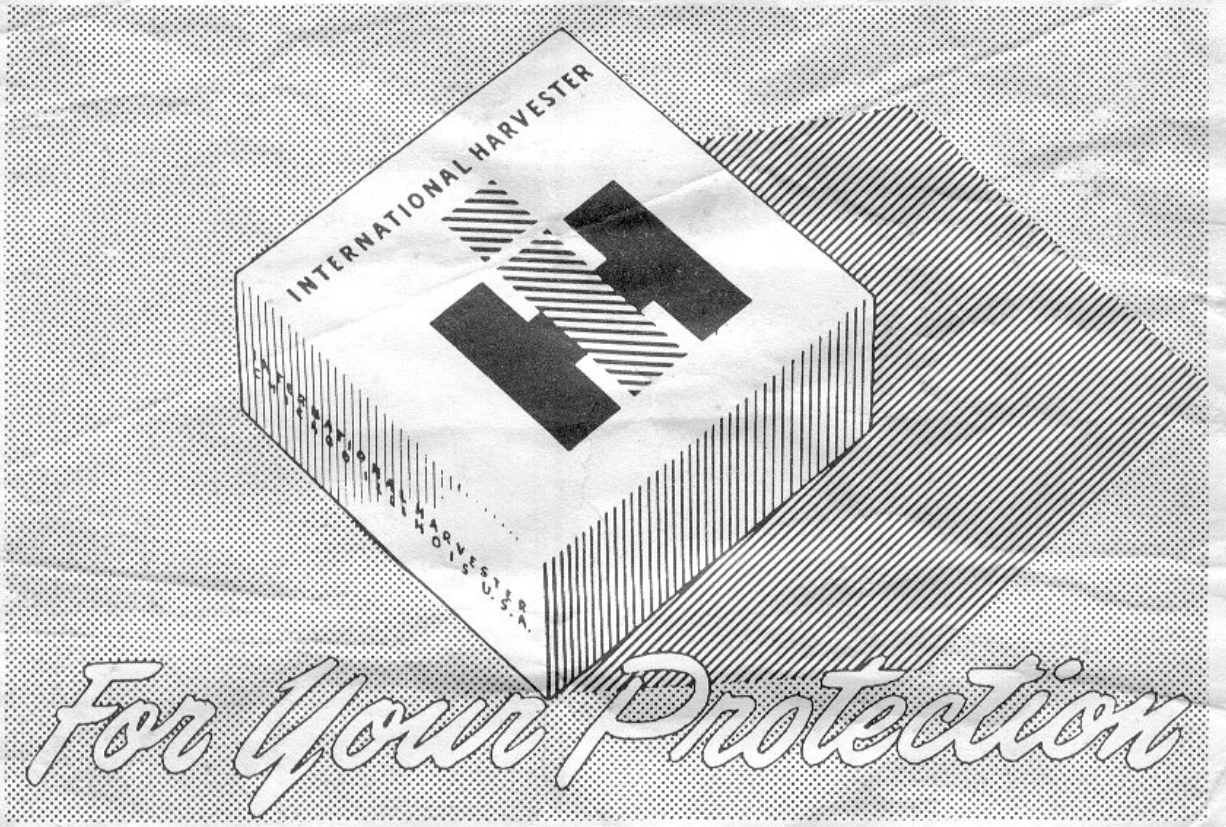
655 320 R1	14
655 322 R1	13
655 323 R1	13
655 324 R91	13
655 326 R91	13
655 327 R1	14



Always Use IH Parts

The finest engineering skill and the most advanced manufacturing methods go into all International Harvester products. Each part is built to our own high manufacturing standards. These are important things to remember when wear and tear make new parts necessary.

IH parts retain and continue the original performance you get when you choose International Harvester quality products. When replacing parts, don't handicap your equipment. For your protection, be sure to use IH SERVICE PARTS.

International Harvester dealers' bins are well stocked with IH parts. These parts departments are well-equipped service stations staffed by factory-trained servicemen. Dealers are backed in every case by the full facilities of a nearby International Harvester District Office.

When selecting new farm operating equipment, keep in mind the protective service rendered by the International Harvester dealer in your community.

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